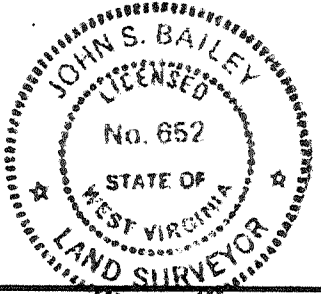


**MSES consultants, inc.**  
 FILE NO. MSES 87-760  
 DRAWN BY RVS/JSB  
 SCALE 1" = 1000'  
 MIN. DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION  
 RD. JCT. ELEV. 922' 3300' SW

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) John S. Bailey  
 R.P.E. \_\_\_\_\_ L.L.S. 652



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE OCTOBER 21, 19 87  
 OPERATOR'S WELL NO. CNGD 2927 REV.  
 API WELL NO. 47 - 017 - 3626 P  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1160.50' WATERSHED TOMS FORK OF MEATHOUSE FORK  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 7.5' NEAREST TOWN LEOPOLD  
 SURFACE OWNER DOLORES HINTERER ACREAGE 204.40  
 OIL & GAS ROYALTY OWNER LOUISA FISHER LEASE ACREAGE 204  
 LEASE NO. DV-11706

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5665'  
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT Rod Biggs  
 ADDRESS Route 2 Box 698 ADDRESS ROUTE 2 BOX 698  
Bridgeport, W.V. 26330 BRIDGEPORT, W.V. 26330

COUNTY PERMIT

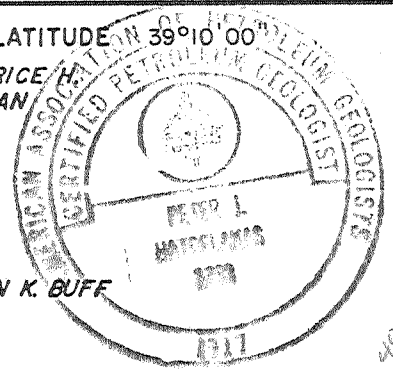
DODDRIDGE COUNTY PERMIT 3626

2/5/88

(+) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

9500'

LATITUDE 39°10'00"



LONGITUDE 80°42'30"

AARON S. & BEATRICE H. SCHWARTZMAN

HELEN K. BUFF

NEW MILTON DISTRICT

THELMA MAXWELL

DAVID E. BOWYER

RALPH MAXELL SWIGER

HENRY B. WANSTREET

LOUISA FISHER LEASE

SOUTHWEST DISTRICT

COVE DISTRICT

T. GERALD & DEBORAH A. OWEN

DIANE E. TROUTMAN

JOSEPH & WULA SCHULTE

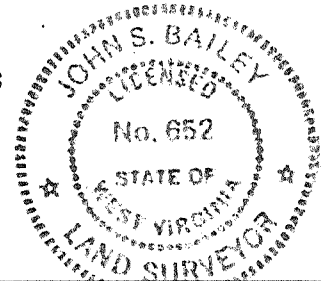
JOHN L. & ELLEN L. STONE

WELL REFERENCE TIES  
S00°59'W 174.02' TO A 14" W.O.  
S03°38'E 177.66' TO A 12" W.O.

MSES consultants, inc.  
FILE NO. MSES 87-760  
DRAWN BY RVS/JSB  
SCALE 1"=1000'  
MIN. DEGREE OF ACCURACY 1 IN 200  
PROVEN SOURCE OF ELEVATION  
RD. JCT. ELEV. 922' 3300'SW

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(SIGNED) John S. Bailey  
R.P.E. \_\_\_\_\_ L.L.S. 652



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION



DATE OCTOBER 21, 1987  
OPERATOR'S WELL NO. CNGD 2927 REV.  
API WELL NO. 47-017-3626  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1160.50' WATERSHED TOMS FORK OF MEATHOUSE FORK  
DISTRICT NEW MILTON 6 Vads WC COUNTY DODDRIDGE  
QUADRANGLE NEW MILTON 7.5' 511 234 NEAREST TOWN LEOPOLD  
SURFACE OWNER DOLORES HINTERER ACREAGE 204.40  
OIL & GAS ROYALTY OWNER LOUISA FISHER LEASE ACREAGE 204  
LEASE NO. DV-11706

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
PLUG AND ABANDON  CLEAN OUT AND REPLUG   
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5665'  
WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS  
ADDRESS P.O. BOX 15746 142 ADDRESS ROUTE 2 BOX 698  
PITTSBURGH, PA. 15244 BRIDGEPORT, W.V. 26330

FEB 13 1988  
FEB 12 1988

FORM IV-6

6-6 Porto Rico (Stout)

(134)



IV-35  
(Rev 8-81)

RECEIVED  
MAY 05 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date April 27, 1988  
Operator's  
Well No. CNGD WN 2927  
Farm Fisher  
API No. 47 - 017 - 3626

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_ /  
(If "Gas," Production X / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow X /)

LOCATION: Elevation: 1160.50 Watershed Toms Fork of Meathouse Fork  
District: New Milton County Doddridge Quadrangle New Milton

COMPANY CNG Development Company

ADDRESS P. O. Box 15746  
Pittsburgh, PA 15244

DESIGNATED AGENT Gary A. Nicholas

ADDRESS Rt. 2 Box 698  
Bridgeport, WV 26330

SURFACE OWNER Dolores Hinterer

ADDRESS Rt. 1  
New Milton, WV 26411

MINERAL RIGHTS OWNER Louisa Fisher

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK

Mike Underwood ADDRESS Rt. 2, Box 135  
Salem, WV 26426

PERMIT ISSUED Feb. 12, 1988

DRILLING COMMENCED 3/25/88

DRILLING COMPLETED 3/31/88

IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON

| Casing<br>&<br>Tubing  | Used in<br>Drilling | Left<br>in Well | Cement<br>fill up<br>Cu. ft. |
|------------------------|---------------------|-----------------|------------------------------|
| Size<br>20-16<br>Cond. |                     |                 |                              |
| 13-10"                 | 211                 | 211             | To Surf.                     |
| 9 5/8                  |                     |                 |                              |
| 8 5/8                  | 1800                | 1800            | To Surf.                     |
| 7                      |                     |                 |                              |
| 5 1/2                  |                     |                 |                              |
| 4 1/2                  | 5590                | 5590            | 540 sks                      |
| 3                      |                     |                 |                              |
| 2-3/8                  | 5370                | 5370            | ----                         |
| Liners<br>used         |                     |                 |                              |

GEOLOGICAL TARGET FORMATION Alexander Depth 5665 feet

Depth of completed well 5665 feet Rotary X / Cable Tools

Water strata depth: Fresh <sup>115</sup>/<sub>140</sub> feet; Salt feet

Coal seam depths: <sup>972</sup>/<sub>1350</sub> Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alex. <sup>5363-5438</sup>/<sub>Riley 4991-98</sub> Pay zone depth <sup>4348-52</sup>/<sub>Warren 3432-3602</sub> feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow 119 Mcf/d Final open flow 7 Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 540 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

MAY 13 1988

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.  
 Perforated Alexander 5363-5438, 24 holes, .39"; Riley 4991-96, 12 holes, .39";  
 Balltown 4346-52, 12 holes, .39"; Warren 3432-3602, 25 holes, .39";  
 Halliburton 30# Gel Frac - Breakdown 1775#, Ave HHP 1890, Ave Rate 35, Ave Pr. 2199,  
 Max Tr Pr. 2275, Total Acid 500, Total Sand 75,000#, Max Conc. 5#/gal, Total Fl. 885,  
 SL Fluid 786, ISIP 1511, 5 min 1184. 2nd stage Breakdown 2800, Ave HHP 2068, Ave  
 Rate 30.5, Ave Pr 2776, Max Tr Pr 3500, Total Acid 500, Total Sand 15,500#, Max.  
 Conc. 3#/gal, Total Fl. 450, SL Fluid 352, ISIP 1150, 5 min 825 (screen out)  
 3rd stage - Breakdown 2400, Ave HHP 2022, Ave Rate 32, Ave Pr 2586, Max Tr Pr 3500,  
 Total Acid 500, Total Sand 19,900#, Max Conc. 3#/gal, Total Fl. 436, SL Fl 332,  
 ISIP 1050, 5 min 739 (screen out) 4th stage - Breakdown 1698, Ave HHP 1592,  
 Ave Rate 32, Ave Pr 2053, Max Tr Pr 3500, Total acid 500, Total Sand 27,100,  
 Max Conc. 4#/gal, Total Fl. 537, SL Fl 466, ISIP 863, 5 min 462 (screen out.)

WELL LOG

| FORMATION          | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS<br>Including indication of all free<br>and salt water, coal, oil and c |
|--------------------|-------|--------------|----------|-------------|--|
| Ground Level       |       |              | 0        | 10          | Damp @ 115'  |
| Sand, Shale & RR   |       |              | 10       | 2073        | 1" stream water @ 140'   |
| L. Lime            |       |              | 2073     | 2123        | 1/2" stream @ 972'   |
| Sand & Shale       |       |              | 2123     | 2157        | 1" stream @ 1350'  |
| Big Lime/Big Injun |       |              | 2157     | 2372        |  |
| Shale              |       |              | 2372     | 2450        |  |
| Weir               |       |              | 2450     | 2548        |  |
| Shale              |       |              | 2548     | 2686        |  |
| Berea              |       |              | 2686     | 2694        |  |
| Shale              |       |              | 2694     | 2820        |  |
| Gordon             |       |              | 2820     | 3000        |  |
| Shale              |       |              | 3000     | 3032        |  |
| 4th                |       |              | 3032     | 3040        |  |
| Sand & Shale       |       |              | 3040     | 3214        |  |
| Bayard             |       |              | 3214     | 3238        |  |
| Shale              |       |              | 3238     | 3526        |  |
| Warren             |       |              | 3526     | 3560        |  |
| Sand & Shale       |       |              | 3560     | 3720        |  |
| Upper Speechley    |       |              | 3720     | 3790        |  |
| Sand & Shale       |       |              | 3790     | 4252        |  |
| Balltown           |       |              | 4252     | 4382        |  |
| Sand & Shale       |       |              | 4382     | 4662        |  |
| Bradford           |       |              | 4662     | 4740        |  |
| Sand & Shale       |       |              | 4740     | 5030        |  |
| Riley              |       |              | 5030     | 5060        |  |
| Sand & Shale       |       |              | 5060     | 5152        |  |
| Benson             |       |              | 5152     | 5160        |  |
| Sand & Shale       |       |              | 5160     | 5272        |  |
| Leopold            |       |              | 5272     | 5300        |  |
| Sand & Shale       |       |              | 5300     | 5394        |  |
| Alexander          |       |              | 5394     | 5504        |  |
| Sand & Shale       |       |              | 5504     | 5665        |  |

RECEIVED  
MAY 05 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

TD.

LOG TOPS ATTACHED

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY

Well Operator

By:

Date:

*Mary A. Nelson*  
4-26-88

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic  
 detailed geological record of all formations, including  
 coal, encountered in the drilling of a well."

MAY 13 1988

CNGD WN 2927  
Farm: Fisher  
API #47-017-3626 ✓

✓ LOG TOPS

---

|              |      |      |
|--------------|------|------|
| Big Lime     | 2148 | 2292 |
| Big Injun    | 2292 | 2306 |
| Weir         | 2404 | 2514 |
| Berea        | 2616 | 2624 |
| Gordon Grp.  | 2824 | 2841 |
| Warren       | 3468 | 3505 |
| U. Speechley | 3515 | 3610 |
| Benson       | 5082 | 5130 |
| Alexander    | 5345 | 5440 |

**RECEIVED**  
MAY 05 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

MAY 10 1988

12

2/12/88  
2/12/90

FORM WW-2B

Page \_\_\_ of \_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: CNG Development Company 10110, G, 510
- 2) Operator's Well Number: CNGD 2927 Rev. 3) Elevation: 1160.5
- 4) Well type: (a) Oil \_\_\_ / or Gas X /  
(b) If Gas: Production X / Underground Storage \_\_\_ /  
Deep \_\_\_ / Shallow X /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5665 feet
- 7) Approximate fresh water strata depths: 120, 83', 643', 743'
- 8) Approximate salt water depths: 1695, ~~8~~
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No X /  
*From Doddridge 761, 2296 3535*
- 11) Proposed Well Work:
- 12)

CASING AND TUBING PROGRAM

| TYPE         | SPECIFICATIONS |       |                | FOOTAGE INTERVALS |              | CEMENT                     |
|--------------|----------------|-------|----------------|-------------------|--------------|----------------------------|
|              | Size           | Grade | Weight per ft. | For drilling      | Left in well | Fill-up (cu. ft.)          |
| Conductor    |                |       |                |                   |              |                            |
| Fresh Water  | 11-3/4         | H-40  | 42             | 200               | 200          | 38CSR18-11.3<br>To surface |
| Coal         |                |       |                |                   |              |                            |
| Intermediate | 8-5/8          | X-42  | 23             | 1775              | 1775         | 38CSR18-11.3<br>To surface |
| Production   | 4-1/2          | J-55  | 10.5           | 5665              | 5665         | 200-400 sks                |
| Tubing       | 1-1/2          | CN-55 | 2.75           |                   |              |                            |
| Liners       |                |       |                |                   |              |                            |

RECEIVED  
JAN 27 1988

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

21338  
4625

Fee(s) paid: Plat WW-9 WW-2B Bond 50 Blanket (Type)  
Well Work Permit Reclamation Fund WPCP  
Agent

**RECEIVED**  
JAN 27 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date: January 15, 1988  
Operator's well number  
CNGD 2927 Rev.  
API Well No: 47 - 017 - 3626  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Dolores Hinterer  
Address Rt. 1  
New Milton, WV 26411
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name Same as surface owner  
Address \_\_\_\_\_
- Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Mike Underwood  
Address Route 2, Box 135  
Salem, WV 26426  
Telephone (304)- 782-1043
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- X Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator CNG Development Company  
By: [Signature]  
Its: Well Programs Supervisor  
Address One Park Ridge Center, P.O. Box 15746  
Pittsburgh, PA 15244  
Telephone (412) 797-4117

Subscribed and sworn before me this 15th day of January, 1988

[Signature] Notary Public  
My commission expires December 19, 1988

CARL G. MOURAVIEV, NOTARY PUBLIC  
PITTSBURGH, ALLEGHENY COUNTY, PA  
MY COMMISSION EXPIRES DECEMBER 19, 1988







9/13/87

10,050'

LATITUDE 39°10'00"

LONGITUDE 80°42'30"

AARON S. & BEATRICE H. SCHWARTZMAN

HELEN K. BUFF

NEW MILTON DISTRICT

SOUTHWEST DISTRICT

LOUISA FISHER LEASE

THELMA MAXWELL

T. GERALD & DEBORAH A. OWEN

N20°W 990'

PROP. WELL CNGD 2928

N85°E 412.50'

N78°E 775.50'

N45°E 239.25'

N65°W 874.5'

N21°30'W 1670.5'

N10°W 849.75'

N24°35'E 2823.0'

N25°00'E 533.30'

S10°19'E 371.46'

N46°W 198'

N85°W 973.50'

N65°W 841.50'

N68°00'E 314.76'

S89°W 1600' ±

S10°19'E 371.46'

N78°40'E 1975.0'

S26°W 1749'

N85°E 1975.0'

N78°40'E 1975.0'

S26°W 1749'

N85°W 973.50'

N65°W 841.50'

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S89°W 1600' ±

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S26°W 1749'

N85°W 973.50'

N65°W 841.50'

N68°00'E 314.76'

S89°W 1600' ±

NORTH

DIANE E. TROUTMAN

DAVID E. BOWYER

COVE DISTRICT

N25°00'E 533.30'

S10°19'E 371.46'

N78°40'E 1975.0'

PROP. WELL CNGD 2927

N46°W 198'

N85°W 973.50'

N65°W 841.50'

N68°00'E 314.76'

S89°W 1600' ±

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N68°00'E 314.76'

S89°W 1600' ±

S10°19'E 371.46'

N78°40'E 1975.0'

S26°W 1749'

N85°W 973.50'

MAGNETIC REFERENCE TIES

PROPOSED WELL TO A 24" SUGAR MAPLE, N 72°40' W 215.25'  
 PROPOSED WELL TO AN 8" SHAGBARK HY., N 65°08' W 202.77'

FILE NO. MSES 87-760

DRAWN BY VSH/PAT

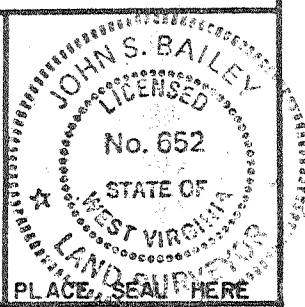
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1 PART IN 200

PROVEN SOURCE OF ELEVATION RD. JCT. ELEV. 922', 3000' SW OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) John S. Bailey  
 R. P. E. \_\_\_\_\_ L. L. S. 652



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)



Department of Mines  
 Oil & Gas Division

DATE MARCH 17, 19 87  
 OPERATOR'S WELL NO. CNGD 2927  
 API WELL NO. 47-017-3543  
 STATE COUNTY PERMIT

CANCELLED

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X)  
 LOCATION: ELEVATION 1195.5' WATER SHED TOM'S FORK OF MEATHOUSE FORK  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON NEAREST TOWN LEOPOLD  
 SURFACE OWNER DOLORES HINTERER ACREAGE 204.40  
 OIL & GAS ROYALTY OWNER LOUISA FISHER LEASE ACREAGE 204  
 LEASE NO. DV-11706  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5660'  
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS  
 ADDRESS P.O. BOX 15746 ADDRESS ROUTE 2, BOX 698  
PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

MAR 11 1988

DODD, 3543

10,050'

LATITUDE 39°10'00"

LONGITUDE 80°42'30"

3725'

AARON S. & BEATRICE H. SCHWARTZMAN

HELEN K. BUFF

NEW MILTON DISTRICT

THELMA MAXWELL

DAVID E. BOWYER

RALPH MAXELL SWIGER

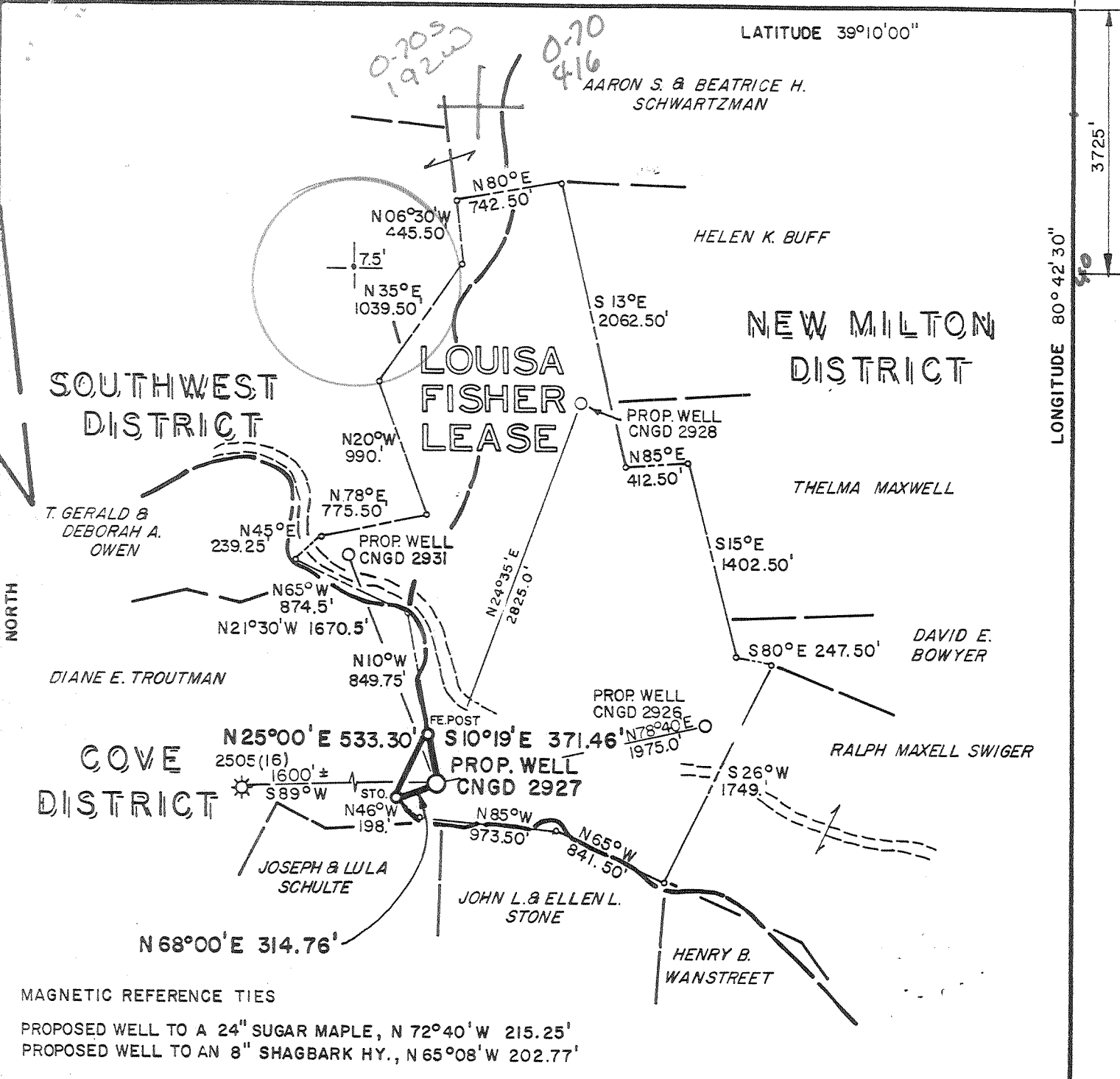
HENRY B. WANSTREET

LOUISA FISHER LEASE

SOUTHWEST DISTRICT

COVE DISTRICT

NORTH



MAGNETIC REFERENCE TIES

PROPOSED WELL TO A 24" SUGAR MAPLE, N 72°40' W 215.25'  
PROPOSED WELL TO AN 8" SHAGBARK HY., N 65°08' W 202.77'

FILE NO. MSES 87-760  
 DRAWN BY VSH/PAT  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION RD. JCT. ELEV. 922', 3000' SW OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) J. L. S. Bailes  
 R. P. E. \_\_\_\_\_ L. L. S. 652

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



Department of Mines  
 Oil & Gas Division

DATE MARCH 17, 19 87  
 OPERATOR'S WELL NO. CNGD 2927  
 API WELL NO. 47-017-3543  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X)  
 LOCATION: ELEVATION 1195.5' WATER SHED TOM'S FORK OF MEATHOUSE FORK  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 511 123 NEAREST TOWN LEOPOLD  
 SURFACE OWNER DOLORES HINTERER ACREAGE 204.40  
 OIL & GAS ROYALTY OWNER LOUISA FISHER LEASE ACREAGE 204  
 LEASE NO. DV-11706

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5660' JUN 1 1987  
 WELL OPERATOR CNG DEVELOPMENT COMPANY DESIGNATED AGENT GARY A. NICHOLAS  
 ADDRESS P. O. BOX 15746 ADDRESS ROUTE 2, BOX 698  
PITTSBURGH, PA 15244 BRIDGEPORT, WV 26330

(Obverse)

7/85

**RECEIVED**  
MAY 08 1987



1) Date: April 29, 19 87  
 2) Operator's Well No. CNGD 2927  
 3) API Well No. 47 017 3543  
 State County Permit

STATE OF WEST VIRGINIA  
 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION  
 DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil  / Gas  /  
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow  /)
- 5) LOCATION: Elevation: 1195.5 Watershed: Tom's Fork of Meathouse Fork  
 District: New Milton C County: Doddridge 017 Quadrangle: New Milton 510
- 6) WELL OPERATOR CNG Development Co CODE: 10110 7) DESIGNATED AGENT Gary Nicholas  
 Address c/o Cheryl S. Hartle P.O. Box 15746 Address Crosswind Corporate Park  
Pittsburgh, PA 15244 Rt. 2, Box 698, Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Mike Underwood 9) DRILLING CONTRACTOR: Name Sam Jack Drilling Co.  
 Address Route 2, Box 114 Address P.O. Box 48  
Salem, WV 26426 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate  /  
 Plug off old formation  / Perforate new formation  /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Alexander
- 12) Estimated depth of completed well, 5660 feet
- 13) Approximate trata depths: Fresh, 3426 feet; salt, 31495 feet.
- 14) Approximate coal seam depths: 4266 Is coal being mined in the area? Yes  / No  /
- 15) CASING AND TUBING PROGRAM see 017-1440? 1607

| CASING OR TUBING TYPE | SPECIFICATIONS |       |                |     | FOOTAGE INTERVALS |                | CEMENT FILL-UP OR SACKS (Cubic feet) | PACKERS                  |
|-----------------------|----------------|-------|----------------|-----|-------------------|----------------|--------------------------------------|--------------------------|
|                       | Size           | Grade | Weight per ft. | New | Used              | For drilling   |                                      |                          |
| Conductor             |                |       |                |     |                   |                |                                      | Kinds                    |
| Fresh water           | 11-3/4         | H-40  | 42             | X   |                   | <u>4560 40</u> | <u>4260</u>                          | To surface By rule 15.05 |
| Coal                  |                |       |                |     |                   |                |                                      | Sizes                    |
| Intermediate          | 8-5/8          | X-42  | 23             | X   | 1600              | 1600           | <del>To surface</del>                | By rule 15.05            |
| Production            | 4-1/2          | J-55  | 10.5           | X   | 5660              | 5660           | 200 - 400                            | Depths set               |
| Tubing                | 1-1/2          | CN-55 | 2.75           | X   |                   |                |                                      | By rule 15.01            |
| Liners                |                |       |                |     |                   |                |                                      | Perforations:            |
|                       |                |       |                |     |                   |                |                                      | Top Bottom               |

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3543

May 26 19 87  
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires May 26, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

|   |  |   |                   |                       |   |  |                                 |
|---|--|---|-------------------|-----------------------|---|--|---------------------------------|
| Bond: <input checked="" type="checkbox"/> | Agent: <input checked="" type="checkbox"/> | Plat: <input checked="" type="checkbox"/> | Casing: <u>AS</u> | Fee: <u>18150 202</u> | WPCP: <input checked="" type="checkbox"/> | S&E: <input checked="" type="checkbox"/> | Other: <input type="checkbox"/> |
|---|--|---|-------------------|-----------------------|---|--|---------------------------------|

NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]  
 Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

10113